

1	TEMPORAL OPTICAL MODULATION	41	...Directional coupler
	 WITHIN AN OPTICAL WAVEGUIDE	42	..Directional coupler
2	..Electro-optic	43	..Tapered coupler
3	..Phase modulation type	44	.."T" coupler or duplex coupler
4	DIRECTIONAL OPTICAL MODULATION	45	.."Y" coupler
	 WITHIN AN OPTICAL WAVEGUIDE	46	..Star coupler
5	..Light intensity dependent (e.g., nonlinear effects)	47	..Multiport coupler using reflective surface
6	..Magneto-optic	48	..Access couplers, power tappers, or power dividers
7	..Acousto-optic	49	..Fiber to thin film devices
8	..Electro-optic	50	..Waveguide to waveguide
9	..Coupling between waveguides	51	..Permanently fixed coupler
10	..Diffraction grating (e.g., Bragg)	52	..With alignment device
11	POLARIZATION WITHOUT MODULATION	53	WITH DISENGAGABLE MECHANICAL
12	OPTICAL WAVEGUIDE SENSOR		 CONNECTOR
13	..Including physical deformation or movement of waveguide	54	..Structure surrounding optical fiber bundle-to-bundle connection
14	INTEGRATED OPTICAL CIRCUIT	55	..Structure surrounding optical fiber-to-fiber connection
15	WITH OPTICAL COUPLER	56	..Multi-part (e.g., two pieces screwed together or bayonet latched)
16	..Switch (i.e., switching from one terminal to another, not modulation)	57	...Magnetically actuated
17	..Matrix switch (i.e., M X N, where M and N are 3 or more)	58	...With additional structure at or immediately surrounding each optical fiber end face
18	..Reflective-type switch	59	....Plural fiber-to-fiber connections
19	..Stationary waveguides with movable opaque element	60	....Fiber end held in ferrule
20	..Multiple pole multiple throw	61	.....Lens-shaped ferrule
21	...Double pole multiple throw	62	.....Compressively fixed (e.g., chuck, collet, crimp, set screws, etc.)
22	..Single pole multiple throw (relay switch)	63	.....Plate-type holding structure (e.g., jewel)
23	..Single pole single throw	64	.....Plural rods or balls structure
24	..Plural (e.g., data bus)	65	.....Groove-type holding structure
25	..Movable coupler	66	.....Tube-type holding structure
26	..Slip ring	67	.....Eccentric arrangement
27	..Particular coupling function	68	.....Capillary tubes
28	..Coupling between modes in a waveguide or fiber	69	...With additional structure rearward of fiber joint to secure additional cable layers
29	...Mode strippers	70	..With additional structure at or immediately surrounding each optical fiber end face
30	..Evanescent wave coupling	71	...Plural fiber-to-fiber connections
31	..Input/output coupler	72	...Fiber end held in ferrule
32	..Coupling light through a waveguide bend or loop		
33	..Lens		
34	...Rod type		
35	...Spherical		
36	..Prism		
37	..Grating		
38	..End fire		
39	..Particular coupling structure		
40	..Electrodes on or near the coupling region		

73	..With additional optical element between facing fiber ends	103	..Having a central strength member
74	...Lens	104	..Particular fiber orientation (e.g., helically wound, etc.)
75	..With additional nonoptical structure	105	..Compartmentalized
76	.Optical fiber/optical fiber cable termination structure	106	..Plural unit type (plural complete cables within a single outside sheath)
77	..At or immediately surrounding an optical fiber end face	107	..With armoring
78	...Fiber end held in ferrule	108	...Prestressed
79	....Lens-shaped ferrule	109	.Loose tube type
80	....Adhesively fixed	110	..Compartmentalized
81	....Compressively fixed (chuck, collet, crimp, set screw, etc.)	111	..Particular fiber orientation
		112	..Plural unit type
		113	..With strength member
82	....Plural rods or balls structure	114	.Ribbon cable
		115	OPTICAL FIBER BUNDLE
83	....Groove-type holding structure	116	.Imaging (i.e., with coherent fiber structure and includes shaping, enhancing, and correcting)
84	....Tube-type holding structure		
85	....Fiber/ferrule further processed (grinding, polishing, etc.)	117	..For fiber scope (endoscope)
		118	...With manipulator
86	..Structure rearward of optical fiber end face to secure additional fiber or cable layers	119	..With lens or mirror
		120	.Fiber bundle plate
		121	.Transition between geometric shapes
87	...Having at least one layer compressively fixed (e.g., crimp, tightening screws, etc.)	122	HAVING NONLINEAR PROPERTY
		123	OPTICAL FIBER WAVEGUIDE WITH CLADDING
88	.Optical fiber to a nonfiber optical device connector	124	.With graded index core or cladding
89	..Plural fiber/device connections	125	.Utilizing nonsolid core or cladding
90	..Fiber adjustable relative to device	126	.Utilizing multiple core or cladding
91	...Fiber permanently fixed after adjustment	127	..Concentric
92	..With housing	128	...Where the second or further layer is a coating
93	...Including lens		
94	...Sealed from environment	129	PLANAR OPTICAL WAVEGUIDE
95	WITH SPLICE (PERMANENT CONNECTION)	130	.Thin film optical waveguide
		131	..Multilayer structure (mixture)
96	.Fusion splicing	132	..Channel waveguide
97	.Alignment of fiber ends prior to splicing	133	OPTICAL IMAGING TUNNEL
		134	ACCESSORIES
98	..End-to-end (butt) coupling	135	.Splice box and surplus fiber storage/trays/organizers/carriers
99	..Including splice joint reinforcement		
100	OPTICAL TRANSMISSION CABLE	136	.External retainer/clamp
101	..With electrical conductor in the same cable	137	..Fiber holder (i.e., for single fiber or holding multiple single fibers together)
102	.Tightly confined (i.e., fiber tightly held inside the outer sheath)		

- 138 .Bushing structure (e.g.,
penetrator)
- 139 .Plug/termination device
- 140 .Attenuator
- 141 **HAVING PARTICULAR OPTICAL
CHARACTERISTIC MODIFYING
CHEMICAL COMPOSITION**
- 142 .Of waveguide core
- 143 ..Organic
- 144 .Of waveguide cladding
- 145 ..Organic
- 146 **NONCYLINDRICAL OR NONPLANAR
SHAPED WAVEGUIDE**
- 147 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

- 900 SOLAR COLLECTOR OR TRANSMITTER
- 901 ILLUMINATING OR DISPLAY APPARATUS
- 902 NONBUNDLE FIBERSCOPE DEVICES

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

